Schedule- B

BBMP/2017-18/OW/WORK_INDENT28222

Constructions of Swimming pool at Amrutha Nagara Byatarayanapura Ward No.07

SNo	Item Name	Unit	Estimate Quantity	Quoted rate of K Somappa	
				Quoted Rate	Total Amount
1	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per	Cum	2892.86	305.64	884173.73
2	Providing sand piles with all leads and lift of 1.5 m. for stabilising foundation after duly making 5 cms. dia holes to a depth of 1.2 to 1.5 m. at 0.5 m c to c and filling with sand and tamping wherever required including cost of materials, labour complete as per specifications(.sand and 10% cement)	Sqm	800.00	233.38	186704.00
3	Providing sand cement bed with 5% cement with all cum leads for all materials and lift of 1.5 m. machine mixed, laid in layers of 15cms. thick and well compacted for foundation, including curing cost of materials labour and HOM complete as per specifications.	Cum	800.00	3349.08	2679264.00
4	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour complete as per specifications.	Cum	269.12	137.16	36912.50
5	Transportation of excavated earth by mechanical means including loading and unloading with a lead of 20 kmtr and dispersing the same as directed.	Cum	2623.74	108.00	283363.92
6	Providing and filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification.	Cum	287.22	2283.12	655757.73
7	Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.	Cum	245.97	5449.68	1340457.79
8	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixedf concrete for RCC works laid in 15 cms thick layers and well compated including vibrating, curing,etc., with all lead and lifts etc complete(excluisive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M-25(for Side Walls and Bottom)	Cum	1410.76	7500.00	10580700.00
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as Walls at any thickness, incluidng attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specfiications.Main Pool-Bottom Concrete-Centering all round	Sqm	816.72	414.72	338710.12

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SNo	Item Name	Unit	Estimate Quantity	Quoted rate of K S	
				Quoted Rate	Tota
10	Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.of size 30 x 30 cms 6mm thick	Sqm	1215.00	1230.08	1494547.2
11	Providing and fixing Stainless steel 304 grade for staircase railings, balconies, ramps with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.	Sqm	33.00	6638.76	219079.08
12	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as eper spec ifications and Extra for providing and mixing Waterproofing compound in cement plaster work at one kg per bag or in the proportion recomended by the manufacturers, for cement mortar 1:3, 12mm thick cost of materials complete as per specifications.	Sqm	984.00	293.76	289059.84
13	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500	MT	155.18	76329.00	11844734.22
14	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing cpmplete as per specification.	Sqm	842.00	1171.80	986655.60
15	Providing and constructing precast concrete Solid Blocks with compressive strength not less than 35 kg/sqm with cement mortar 1:4 masonry (quion, jamb, closer blocks) with Solid Concrete Blocks of size 40x20x20cms confirming to I.S 2185/1965 in Superstructure including cost of all materials, labour charges, scaffolding, curing complete as per specifications.	Sqm	2504.92	1011.96	2534878.84
16	Providing and constructing granite / trap / basalt Size Stone Masonry in foundation with cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications	Cum	76.68	4359.96	334321.73

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	Item Name	Unit	Estimate Quantity	Quoted rate of K Somappa	
				Quoted Rate	Total Amount
17	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.	Sqm	928.00	395.28	366819.84
18	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressuemers and lintles exceeding 1 m in depth incluidng cost of all materials, labour complete as per specifications.	Sqm	391.20	365.04	142803.65
19	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs landings balconies and likes thickness upto 200 mm including cost of all materials labour complete as per specifications upto 3.50m from Ground level	Sqm	2395.60	961.02	2302219.51
20	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.For Outside Plastering	Sqm	3459.46	277.56	960207.72
21	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge Providing lime rendering for plastering to wall and ceiling including cost of mate3rials labour curing complete as per specifications Internal wall platering	Sqm	4327.86	306.72	1327441.22
22	Providing and laying Hassan Green Granite flooring for Staircase, treads and rises using pre polished 20mm thick water cut green Granite Slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing, cutting 3 lline grooves not more than 2mm wide for antiskidding, curing etc., complete.	Sqm	72.09	4305.96	310416.66
23	Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.of size 30 x 30 cms 6mm thick	Sqm	180.00	1270.08	228614.40
24	Providing ACE paint to external walls of approved colour and shade over prime's coat.after brooming & cleaning the surface and applying two coats of ACE paint with cost of all material,labour,lead lift with loading unloading etc.complete as per direction of Engineer in charge of work.(Approved rates)	Sqm	3459.46	160.00	553513.60
25	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost oif labour and scaffolding etc complete as per the specifications	Sqm	5706.42	60.48	345124.28

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SNo	Item Name	Unit	Estimate Quantity	Quoted rate of ... Quoted Rate	Total
26	Providing and applying painting in two coats with plastic Emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge.with primer	Sqm	5706.42	97.20	554664.[illegible]
27	Providing 12mm thick cement plaster in single coat with cement mortar 1:3 to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials,labour, curing complete as per specifications.Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:3 12mm thick cost of materials complete as per specifications.	Sqm	1378.56	208.44	287347.05
28	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.30, I. 9.4) PRED.SR 2012-13	Each	2.00	1900.00	3800.00
29	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 0 to 50m	m	100.00	306.00	30600.00
30	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 50 to 100m	m	100.00	400.00	40000.00

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	Item Name	Unit	Estimate Quantity	Quoted rate of K Somappa	
				Quoted Rate	Total Amount
31	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 100 to 150m	m	100.00	445.00	44500.00
32	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 150 to 200m	m	100.00	470.00	47000.00
33	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 200 to 250 m	m	100.00	544.00	54400.00
34	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) 250 to 300 m	m	100.00	583.00	58300.00
35	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) as per corragandam	m	140.00	1325.00	185500.00
36	Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work	m	160.00	754.47	120715.20
37	Providing and fixing 175mm Borewell Cap	Nos	2.00	150.00	300.00

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SNo	Item Name	Unit	Estimate Quantity	Quoted rate of [illegible]	
				Quoted Rate	Total
38	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 17.50 HP 40 stage.	Nos	2.00	44000.00	88000.00
39	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008. 50 mm dia including Collar Heavy Class	m	700.00	415.00	290500.00
40	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/ I No. 30-B 4.0 Sqm mm of 36 strands 0.3mm dia Group -	m	1400.00	151.00	211400.00
41	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost)	Nos	2.00	3000.00	6000.00
42	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,	Nos	2.00	285.00	570.00
43	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.P No. 67/ I No. 10(d) 4 core 16 Sqmm KPWD Electrical SR 2007-08	m	120.00	150.00	18000.00
44	Labour charges for laying of 1.1 K.V class UG cable	m	120.00	8.00	960.00
45	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR	Rmtr	60.00	60.00	3600.00
46	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class	Rmtr	30.00	240.00	7200.00

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	Item Name	Unit	Estimate Quantity	Quoted rate of K Somappa	
				Quoted Rate	Total Amount
47	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia,	Rmtr	4.00	1950.00	7800.00
48	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete...	Nos	6.00	120.00	720.00
49	Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Nos	2.00	1114.00	2228.00
50	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 93/ I. No. 13.81.3 PWD SR 2007-08	Nos	2.00	201.40	402.80
51	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete	Nos	2.00	80.00	160.00
52	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications	Nos	2.00	350.00	700.00
53	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications	Nos	2.00	1000.00	2000.00
54	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. 15HP to 30 HP Star Delta Starter	Nos	2.00	65700.00	131400.00
55	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc.,	m	250.00	253.80	63450.00

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SNo	Item Name	Unit	Estimate Quantity	Quoted rate of K Sons	
				Quoted Rate	Total
56	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Nos	4.00	2781.00	11124.00
57	Providing and laying wooden floor for batmitun court & Gym room using 50x75mm Runners at the intervals of 0.45 both ways using mathi/sal wood with nailing properly fixing to existing roof concrete and above the Runners the planks of teakwood using tung & groove system with necessary chemicals niles. polishing to be made for the teakwood planks. Approved Rate	Sqm	1080.00	12000.00	12960000.00
58	Providing and laying 1.35mm pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.. Approved Rate	Sqm	1560.00	2916.00	4548960.00
59	Supply, installtion, testing and commissioning of filters Commercial Bobin wound filter with 160mm fiange connection - 157 cumtr/hr Filtration velocity 50m3/SEC. Speed 245m3/Hour Make: 2000 mm DIA/CERTIKIN / Aqua LIX (U.K) directions of the Engineer-In-charge of the work	Nos	2.00	535000.00	1070000.00
60	Supply, installtion, testing and commissioning of VALVE BATTERY Frontal Valve Assembly 160 mm connections with Valve support and Brackets Filtration velocity 50m3/SEC. Speed 245m3/Hour Make: 2000 mm DIA/CERTIKIN / Aqua LIX (U.K) directions of the Engineer-In-charge of the work	Set	2.00	215940.00	431880.00
61	Supply, installtion, testing and commissioning of RECIRCULATING PUMPS 10 HP monoblock centrifugal pump 400V 3ph discharge:45 LPS at 13m head suction size:150mm, delivery: 150mm includes 1no standby directions of the Engineer-In-charge of the work	Nos	3.00	74290.00	222870.00
62	Supply, installtion, testing and commissioning of FLOOR INLETS bottom inlet for concrete with S.S. screws made of ABS plastic. Max. flow: 10cum/hr 2 inches threaded fitting directions of the Engineer-In-charge of the work	Nos	50.00	875.00	43750.00
63	Supply, installtion, testing and commissioning of GUTTER GRATINGS Made in white, U.V. Stabilized PP. Width: 245mm, Height : 35mm directions of the Engineer-In-charge of the work	Nos	72.00	3060.00	220320.00
64	Supply, installtion, testing and commissioning of MAIN DRAIN GRATING COVER, material : SS 304 500mm x 500mmx6mm thick with slot openings of 6mm directions of the Engineer-In-charge of the work	Nos	2.00	21000.00	42000.00
65	Supply, installtion, testing and commissioning of STAINLESS STEEL PREFILTER 6 inches opening with threaded collar with sight glass, SS sieve, flow:170cum/hr Material: SS 304 directions of the Engineer-In-charge of the work	Nos	3.00	41500.00	124500.00

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	Item Name	Unit	Estimate Quantity	Ouoted rate of K Somappa	
				Quoted Rate	Total Amount
66	Supply, installtion, testing and commissioning of SUCTION INLETS ABS plastic, 2 inches external DIA glue type Flow:3.5 cum/hr, with threaded cap directions of the Engineer-In-charge of the work	Nos	50.00	875.00	43750.00
67	Supply, installtion, testing and commissioning of STAINLESS STEEL LADDERS made of SS 316 with pipe dia 38mm with non skid steps with embossed finish or checkered finish overflow model No of steps = 3 directions of the Engineer-In-charge of the work	Nos	2.00	51750.00	103500.00
68	No of steps = 4 directions of the Engineer-In-charge of the work	Nos	2.00	55315.00	110630.00
69	No of steps = 5 directions of the Engineer-In-charge of the work	Nos	2.00	66125.00	132250.00
70	Supply, installtion, testing and commissioning of MAINTENANCE KIT COMPRISING OF: a) LEAFE RAKE Deep bag net made in polypropylene and polyester netting butterfly nut connection directions of the Engineer-In-charge of the work	Nos	1.00	2000.00	2000.00
71	Curved brushes made in polypropylene for pool basins and scum liners directions of the Engineer-In-charge of the work	Nos	1.00	2400.00	2400.00
72	Straight brushes made in polypropylene for pool basins and scum liners directions of the Engineer-In-charge of the work	Nos	1.00	2400.00	2400.00
73	Reinforced aluminium telescopic handle 2.4/4.8m with clip connection directions of the Engineer-In-charge of the work	Nos	1.00	4400.00	4400.00
74	Metallic Anodized Aluminium Vacuum head directions of the Engineer-In-charge of the work	Nos	1.00	19700.00	19700.00
75	Extensible handles for cleaning attachments in anodized aluminium which can be adapted to the entire range of cleaning equipment, brushes, leaf skimmers and scoops 10m long directions of the Engineer-In-charge of the work	Nos	1.00	4370.00	4370.00
76	Transparent blue plastic vacuum hose 11/2" dia 30mtr slong including hose cuffs for connection to suction inlets directions of the Engineer-In-charge of the work	Nos	1.00	7100.00	7100.00
77	Supply, installtion, testing and commissioning of TEST KIT for checking free Chlorine & pHTablet type DPD directions of the Engineer-In-charge of the work	Nos	1.00	1650.00	1650.00
78	Supply, installtion, testing and commissioning of POOL CLEANER trolly mounted with 1.5 Hp self priming pump with prefillter, starter and 63mm flexible hose directions of the Engineer-In-charge of the work	Nos	1.00	49000.00	49000.00
79	Supply, installtion, testing and commissioning of LANE SEPERATOR ROPES directions of the Engineer-In-charge of the work	Nos	6.00	38500.00	231000.00
80	Supply, installtion, testing and commissioning of ANCHOR HOOKS STAINLESS STEEL fixed to end walls for lane ropes directions of the Engineer-In-charge of the work	Nos	12.00	3300.00	39600.00
81	Supply, installtion, testing and commissioning of CONTRL PANNEL WIRING, floor mounted CP, Control of Mtrs, volts meter, 3 Phase indicater System, Change over shutter, ELCB, MCB, Pump, coverage to each indicator relay, cable and conduit with pump engineers specification directions of the Engineer-In-charge of the work	Nos	1.00	100000.00	100000.00

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	Item Name	Unit	Estimate Quantity	Quoted rate Quoted Rate	
82	Supply, installtion, testing and commissioning of GAS CHLORINATION SYSTEM vacuum type cylinder mounted gas (DCM) chlorinator capacity 0-500 gms/hr, chlorination system consisting of filter Assembly, Vacuum Regulator, flow meter assembly, control valve assembly, injector assembly including booster pump assembly and piping complete directions of the Engineer-In-charge of the work	Nos	1.00	327750.00	327750.00
83	Supply, installtion, testing and commissioning of BUTTERFLY VALVES Wafer type PN 10 STD,replacable EPDM sleeve CI body with SS316 disc a) 10 INCHES directions of the Engineer-In-charge of the work	Nos	2.00	26220.00	52440.00
84	Supply, installtion, testing and commissioning of NON RETURN VALVES Material: gun metal Size: 8 inches directions of the Engineer-In-charge of the work	Nos	2.00	19700.00	39400.00
85	Supply, installtion, testing and commissioning of UPVC PIPES a) 400 MM DIA 6 KG/SQCM directions of the Engineer-In-charge of the work	m	77.00	4900.00	377300.00
86	d) 63 MM DIA 10KG/SQCM directions of the Engineer-In-charge of the work	m	49.00	260.00	12740.00
87	e) 160 MM DIA 6 KG/SQCM directions of the Engineer-In-charge of the work	m	220.00	2000.00	440000.00
88	Supply, installtion, testing and commissioning of UPVC ELBOW 6 KG/SQCM a) 200 MM directions of the Engineer-In-charge of the work	Nos	10.00	4025.00	40250.00
89	c) 400 MM directions of the Engineer-In-charge of the work	Nos	9.00	26800.00	241200.00
90	e)160 MM directions of the Engineer-In-charge of the work	Nos	28.00	1650.00	46200.00
91	Supply, installtion, testing and commissioning of UPVC TEE 6 KG/SQCM a) 200 MM directions of the Engineer-In-charge of the work	Nos	49.00	2750.00	134750.00
92	c) 400 MM directions of the Engineer-In-charge of the work	Nos	10.00	18055.00	180550.00
93	e)160 MM directions of the Engineer-In-charge of the work	Nos	7.00	1650.00	11550.00
94	Supply, installtion, testing and commissioning of UPVC REDUCER 6 KG/SQCM a) 160/400 directions of the Engineer-In-charge of the work	Nos	7.00	20800.00	145600.00
95	63/160 directions of the Engineer-In-charge of the work	Nos	49.00	1090.00	53410.00
96	Supply, installtion, testing and commissioning of STARTING BLOCKS FIBREGLASS 400 mm height non slip finish 0.5x 0.5m with nos 1 to 9 with anchoring fixtures directions of the Engineer-In-charge of the work	Nos	6.00	26220.00	157320.00
97	Providing and fixing of white colour vitreous China clay,water closet European type (pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level,PVC flush cistern (all are approved make) with fitting CI/MS brackets, 40mm diameter flush bend with fittings and clamp, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11 (P.no74,It no.12.5)	Nos	10.00	5540.00	55400.00

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	Item Name	Unit	Estimate Quantity	Ouoted rate of K Somappa	
				Quoted Rate	Total Amount
98	Providing and fixing of white colour vetreous China clay flat back lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, CI /MS brackets, standard flush pipe and CP brass spreaders with brass unions and GI clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11(P.no 75,It no.12.7)	Nos	5.00	3204.36	16021.80
99	Providing and fixing of white colour vetreous China clay flat back wash basin size 630x450mm with a single 15mm CP brass piller tap with CI / MS brackets, 32 mm CP brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specification No. KBS 11 (P.no78 It.no.12.24)	Nos	10.00	3247.56	32475.60
100	Providing and fixing 600x450mm bevel lead edge mirror of superior glass with 6mm hard board backing and fixed to wooden cleats with CP screws, washers, including cost of materials, labour complete as per specifications.(P.no 79,It no.12.39)	Nos	10.00	1351.08	13510.80
101	Providing and fixing C.P brass towel rail 740mm length, 20 mm dia with C.P brackets, fixed to wooden cleats with C.P brass screws including cost of materials, labour complete as per specification.(P.no 80,It no.12.45)	Nos	10.00	845.64	8456.40
102	Providing and fixing 15mm dia Bib Cock	Nos	30.00	180.00	5400.00
103	Providing and fixing Brass Union 15mm nominal bore with PVC Connection pipe 300mm length	Nos	30.00	160.00	4800.00
104	Providing and fixing in position brass stop cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 20mm nominal bore	Nos	30.00	172.80	5184.00
105	Providing and fixing in position brass bib cock of approved quality of as per dia nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. 15mm nominal bore	Nos	15.00	249.48	3742.20
106	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.25mm nominal pipe	m	150.00	178.20	26730.00
107	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 50mm nominal OD Pipe	m	10.00	486.00	4860.00
108	Providing & fixing Chorinated Poly Venyl(CPVC) pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling and testing of joints complete.(Burried). 100mm Nominal OD Pipe	m	10.00	2570.40	25704.00

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SNo	Item Name	Unit	Estimate Quantity	Quoted rate of K Som	
				Quoted Rate	Total Am
109	Providing and fixing water meter with stop cock, jam nut, socket in G.I pipe line including cutting and threading the pipe and making long screws including cost of all materials, labour , HOM of equipments and testing complete as per specificationsKSRB(Pag no 88. Itm 13.22)	Nos	1.00	1423.44	1423.44
110	Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification25mm nominal Dia	Nos	1.00	654.48	654.48
111	Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification.50mm Nominal Dia	Nos	4.00	2216.16	8864.64
112	Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification 25mm dia	Nos	4.00	648.00	2592.00
113	Providing and fixing in position brass Gate valve with CI wheel of approved quality (screwed end) below nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification.80mm dia	Nos	4.00	3303.72	13214.88
114	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 50mm dia	m	100.00	373.58	37358.00
115	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 90mm dia	m	100.00	616.68	61668.00
116	Providing and fixing to wall,ceiling and floor high density polyethlne pipes 6.00kgf/sq.cm working pressure 75& 110 mm out side diameter with speicial flange ,compression type fitting,wall clips,making good the wall celing and floor , including cost of all materils labour chargs , HOM of quipment and testing complete as per specificatiion 140mm dia	m	100.00	774.36	77436.00
117	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).10 cmsx 7.5	Nos	30.00	270.00	8100.00
118	Providing and fixing 7.5 cms to 15.00 cms dia NP granting 100 mm dia Pag no 85. Itm 12.111 -	Nos	30.00	172.80	5184.00

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	Item Name	Unit	Estimate Quantity	Quoted rate of K Somappa	
				Quoted Rate	Total Amount
119	Constructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for pipeline with one or two inlets, using table mounted non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 600x 600mm internal dimensions, total weight of cover 23kg and weight of frame 15kg) R.C.C top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications Pag no 70. Itm 11.50.1	Nos	10.00	7604.00	76040.00
120	providing and fixing on wall surface 4 kg/sq.cm HDPE rain down water pipes 110mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications P.No.47item No.8.19	m	300.00	613.44	184032.00
121	Providing & fixing of glazed Openable Window made out of multi chambered uPVC sections with TPV gaskets having isolated drainage and reinforced with Galvanixed iron profiles throuhout the window. The outer frame having a overall size of 60x55 mm with reinforcement of 1 mm thickness, mullion with overall size of 74x60 mm with reinforcement of 1 mm and sash with overall size of 75x60 mm with reinforcement of 1.5 mm thickness. Glazing bead for fixing of glass shall be of size 34x20 mm and coextruded with gasket. Windows shall be provided with 5mm plain float glass, standard hardware & single point locking system of flush lock, Wall thickness of frame, mullion & sash shall be 2-2.2 mm.	Sqm	87.60	7560.00	662256.00
122	PART A:- SUBSTATION EQUIPMENT Supply and erection of 11Mtr Spun Pole including earth work etc,. complete as per the standard technical specification directions of the Engineer-In-charge of the work	Each	1.00	22957.00	22957.00
123	Supply And Fixing of Single Pole Mounted Transformer Kit for 100/250KVA on 11Mtr Spun Pole etc. complete as per the standard technical specification of directions of the Engineer-In-charge of the work	Each	1.00	31800.00	31800.00
124	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification directions of the Engineer-In-charge of the work 5.8.8) GOS Set 200 Amps Single break	Each	1.00	9840.00	9840.00
125	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification directions of the Engineer-In-charge of the work5.8.1) H Frame Set	Each	1.00	4560.00	4560.00
126	Supply and fixing of cross arm including all Hardware's complete as per the standard technical specification 5.4.3) Horizontal. 50x450x6mm -980mm directions of the Engineer-In-charge of the work	Each	2.00	562.00	1124.00
127	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.9.4) Disc Insulator 70/90 KN directions of the Engineer-In-charge of the work	Each	6.00	540.00	3240.00

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SNo	Item Name	Unit	Estimate Quantity	Quoted rate of ...	
				Quoted Rate	Total
128	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.9.3)11 KV Pin Insulator directions of the Engineer-In-charge of the work	Each	6.00	114.00	684.00
129	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.8)HT ST Support 50x8 mmdirections of the Engineer-In-charge of the work	Each	2.00	172.00	344.00
130	Supply and fixing of cross arm including all Hardware's complete as per the standard technical specification 5.4.1)4 Pin 45x45x5mm -1110mm directions of the Engineer-In-charge of the work	Each	4.00	461.00	1844.00
131	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.10)Horn Gap Fuse Unit (H.G.) directions of the Engineer-In-charge of the work	Each	1.00	1320.00	1320.00
132	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification 5.8.12)Lightning Arrestor 9KV 5kA polymeric type. directions of the Engineer-In-charge of the work	Each	1.00	4250.00	4250.00
133	Supplying erection, testing and commissioning of 11kV Load Break Switch with 4 wire- (with Neutral) Metering cubicle and connected accessories, hardware's etc. suitable for outdoor type complete as per latest IS standard technical specification. LBS should be approved by BESCOM System :11KV, 3PH, 50HZ, Fault level: 350 MVA. Installation : OUTDOOR. a.Onload AIR BREAK switch with fuse trip mechanism.,3P,400A, 12KV,18.4 KA, 350MVA - 1 no b.11KV HRC Fuses with triping striker pin suitable Amps - 3nos c.Aluminium busbar, suitable rating 3 Phase,Air insulated with heat shrinkable sleevs - 1set d.Earth 25X3 mm Tin coated copper busbar - 1set e.Busbar supports resin cast with 33KV die electric and mechanical strength - 1 set directions of the Engineer-In-charge of the work	Each	1.00	319987.00	319987.00
134	Caution/Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07 directions of the Engineer-In-charge of the work	Nos	2.00	163.00	326.00
135	GI Pipes B - Class GI Pipe - 150 mm Dia Dia 768058 directions of the Engineer-In-charge of the work	m	10.00	1144.00	11440.00
136	TRANSFORMER:- Supplying, erecting, testing and commissioning of ..... KVA capacity Copper wound Distribution Transformer 11KV/433V with Off Load Tap Switch, Buchholtz relay winding temperature indicator, oil temperature indicator, marshalling box with wiring, magnetic oil level indicator with +5% to-10% Steps of 2.5% with HT and LT cable end boxes including all standard accessories as per latest IS standard technical specification. 8.10.2) 100 KVA directions of the Engineer-In-charge of the work	Each	1.00	328700.00	328700.00

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	Item Name	Unit	Estimate Quantity	Quoted rate of K Somappa	
				Quoted Rate	Total Amount
137	LT KIOSK:- LT Distribution Box for 63/100 KVA Transformer with 1No 160Amps 25kA 4Pole MCCB, suitable capacity aluminum bus bar mounted in 16SWG powder coated M.S.Box suitable to mount at Transformer Centre directions of the Engineer-In-charge of the work	Set	1.00	18270.00	18270.00
138	B. EARTHING SYSTEM Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia directions of the Engineer-In-charge of the work	Each	6.00	2727.00	16362.00
139	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. directions of the Engineer-In-charge of the work	Each	8.00	4317.00	34536.00
140	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm Copper strip directions of the Engineer-In-charge of the work	m	17.00	523.00	8891.00
141	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required. 25x6mm Copper strip directions of the Engineer-In-charge of the work	m	12.00	1018.00	12216.00
142	Supplying and running of Copper strips for grounding connections, using necessary fixing materials as required.600x600x3mm plate directions of the Engineer-In-charge of the work	m	4.00	7148.00	28592.00
143	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 25x3mm GI strip directions of the Engineer-In-charge of the work	m	109.00	77.00	8393.00
144	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 40x6mm GI strip directions of the Engineer-In-charge of the work	m	20.00	166.00	3320.00
145	Supplying and running of GI strips for grounding connections, using necessary fixing materials as required. 600x600x3mm GI Plate directions of the Engineer-In-charge of the work	m	4.00	784.00	3136.00
146	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 8 SWG directions of the Engineer-In-charge of the work	m	35.00	19.50	682.50

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